

Protection Equipment

Overload Relays

Introduction



Type	3RB20							3RB21							3RB22, 3RB23							3RB24											
SIRIUS overload relays up to 630 A																																	
Applications																																	
• System protection	✓ ¹⁾							✓ ¹⁾							✓ ¹⁾																		
• Motor protection	✓							✓							✓																		
• Alternating current, three-phase	✓							✓							✓																		
• Alternating current, single-phase	--							--							✓																		
• Direct current	--							--							--																		
Size contactor	S00 ... S12							S00 ... S12							S00 ... S12																		
Rated operational current I_e																																	
• Size S00	A	Up to 12						Up to 12							Up to 25 and 45 mm width with current measuring modules 3RB2906-2BG1/3RB2906-2DG1																		
• Size S0	A	Up to 25						Up to 25																									
• Size S2	A	Up to 50						Up to 50							Up to 100 and 55 mm width with current measuring module 3RB2906-2JG1																		
• Size S3	A	Up to 100						Up to 100																									
• Size S6	A	Up to 200						Up to 200							Up to 200 and 120 mm width with current measuring modules 3RB2956-2TH2/3RB2956-2TG2																		
• Size S10/S12	A	Up to 630						Up to 630							Up to 630 and 145 mm width with current measuring module 3RB2966-2WH2																		
• Size 14 (3TF68/3TF69)	A	Up to 630						Up to 630							Up to 820 with current measuring module 3RB2906-2BG1 and transformer 3UF1868-3GA00																		
Rated operational voltage U_e	V	AC 690/1 000 ²⁾							AC 690/1 000 ²⁾							AC 690/1 000 ³⁾																	
Rated frequency	Hz	50/60							50/60							50/60																	
Trip class		CLASS 10, 20							CLASS 5, 10, 20, 30 Adjustable							CLASS 5, 10, 20, 30 Adjustable																	
Thermal overload releases	A	--							--							--																	
Electronic overload releases	A	0,1 ... 0,4 up to 160 ... 630							0,1 ... 0,4 up to 160 ... 630							0,3 ... 3 up to 63 ... 630																	
Accessories																																	
For sizes		S00	S0	S2	S3	S6	S10/S12	S00	S0	S2	S3	S6	S10/S12	S00	S0	S2	S3	S6	S10/S12	S00	S0	S2	S3	S6	S10/S12	S00	S0	S2	S3	S6	S10/S12		
Terminal supports for stand-alone installation		✓	✓	4)	4)	4)	4	✓	✓	4)	4)	4)	4	4)	4)	4)	4)	4)	4)	4	4)	4)	4)	4)	4)	4)	4	4)	4)	4)	4)	4)	4
Mechanical RESET		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Cable releases for RESET		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Electrical remoe RESET		--	--	--	--	--	--	Integrated in the unit							Integrated in the unit																		
Terminal covers		--	--	--	✓	✓	✓	--	--	--	✓	✓	✓	--	--	--	✓	✓	✓	--	--	--	✓	✓	✓	--	--	--	✓	✓	✓		
Sealable covers for setting knobs		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Operator panel for 3RB24 evaluation module		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		

✓ Has this function or can use this accessory

-- Does not have this function or cannot use this accessory

¹⁾ The units are responsible in the main circuit for overload protection of the assigned electrical loads (e.g. motors), feeder cable, and other switching and protection devices in the respective load feeder.

²⁾ Size S2 (only with straight-through transformer), S3, S6, S10, S12 up to 1 000 V AC.

³⁾ With reference to the 3RB29.6 current measuring modules.

⁴⁾ Stand-alone installation without accessories is possible.